Features of your new air conditioner

- **Cool Summer Offer**

  On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. This summer, beat the heat with your own air conditioner.

- **Flexible installation**

  Duct type air conditioner is designed to be slimmer and offers different solutions for any shape room allowing for specific air flow requirements. Also, the air intake can be set up on either the bottom or rear of the unit, so there is more flexibility in installation.

SAMSUNG

For easy future reference, write the model and serial number down. You will find your model number on the bottom right side of the air conditioner.

Model #_____

Serial #_____

Contents

USING PARTS

Safety precautions **4**

Viewing your air conditioner **8**

Using your air conditioner **9**

Tips on using your air conditioner 9

Cleaning and maintaining the air conditioner **10**

Cleaning the filter 10

Maintaining your air conditioner 11

Appendix **12**

Troubleshooting 12

Operation ranges 13

INSTALLATION PARTS

Safety precautions **14**

Selecting the installation location **16**

Indoor unit installation **21**

Purging the unit **22**

Connecting the refrigerant pipe **23**

Cutting/flaring the pipes **24**

Performing leak test & insulation **25**

Drain pipe and drain hose installation **27**

Wiring work **30**

Adjusting air flow **33**

Setting up the mode option **34**

Assigning address to indoor unit **37**

Additional functions **38**

Final check and Providing information for user **39**

Troubleshooting **40**

Safety precautions

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death.**
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage.**

	Follow directions.
	Do NOT attempt.
	Make sure the machine is grounded to prevent electric shock.
	Unplug the power plug from the wall socket.
	Do NOT disassemble.

FOR INSTALLATION | WARNING

Plug the power cord into a wall socket with the power specifications of the product or higher and use the socket for this appliance only. In addition, do not use an extension cord.

- Sharing a wall socket with other appliances using a power strip or extending the power cord may result in electric shock or fire.
- Do not use an electric transformer. It may result in electric shock or fire.
- If the voltage/frequency/rated current condition is different, it may cause fire.

The installation of this appliance must be performed by a qualified technician or service company.

- Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

Install a switch and circuit breaker dedicated to the air conditioner.

- Failing to do so may result in electric shock or fire.

Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.

- Failing to do so may result in electric shock or fire.

Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.

- This may result in electric shock or fire.

Never install the outdoor unit in a location such as on a high external wall where it could fall.

- If the outdoor unit falls, it may result in injury, death or property damage.

This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.

- Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.
- Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

FOR INSTALLATION | CAUTION

This appliance should be positioned in such a way that it is accessible to the power plug.

- Failing to do so may result in electric shock or fire due to electric leakage.

Install your appliance on a level and hard floor that can support its weight.

- Failing to do so may result in abnormal vibrations, noise, or problems with the product.

FOR INSTALLATION | ⚠ CAUTION

Install the draining hose properly so that water is drained correctly.
- Failing to do so may result in water overflowing and property damage.

When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.
- The water generated during the heating operation by the outdoor unit may overflow and result in property damage. In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

FOR POWER SUPPLY | ⚠ WARNING

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.
- Unplug the power plug and clean it with a dry cloth.
- Failing to do so may result in electric shock or fire.

Plug the power plug into the wall socket in the right direction so that the cord runs towards the floor.
- If you plug the power plug into the socket in the opposite direction, the electric wires within the cable may be damaged and this may result in electric shock or fire.

When the appliance or power plug or power cord is damaged, contact your nearest service center.

Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord or loose wall socket.
- This may result in electric shock or fire.

Do not pull the power cord, when unplugging the power plug.
- Unplug the power plug by holding the plug.
- Failing to do so may result in electric shock or fire.

Do not pull or excessively bend the power cord. Do not twist or tie the power cord. Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.
- This may result in electric shock or fire.

FOR POWER SUPPLY | ⚠ CAUTION

When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.
- Failing to do so may result in electric shock or fire.

FOR USING | ⚠ WARNING

If the appliance is flooded, please contact your nearest service center.
- Failing to do so may result in electric shock or fire.

If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.
- Failing to do so may result in electric shock or fire.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug. Do not touch the appliance or power cord.
- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

To reinstall the air conditioner, please contact your nearest service center.
- Failing to do so may result in problems with the product, water leakage, electric shock, or fire.
- A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.
- Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

Safety precautions

FOR USING | ⚠ WARNING

Do not touch the power plug or the circuit breaker with wet hands.
- ▶ This may result in electric shock.

Do not unplug the power plug or turn the air conditioner off with the circuit breaker while it is operating.
- ▶ Plugging the power plug into the wall outlet or turning the air conditioner on from the circuit breaker may cause a spark and result in electric shock or fire.

After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.
- ▶ If a child places a bag over its head, it may result in suffocation.

Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.
- ▶ Take special care that children do not injure themselves by inserting their fingers into the product.

Do not strike or pull the air conditioner with excessive force.
- ▶ This may result in fire, injury, or problems with the product.

Do not place an object near the outdoor unit that allows children to climb onto the machine.
- ▶ This may result in children seriously injuring themselves.

Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.
- ▶ Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.

If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.
- ▶ Failing to do so may result in electric shock or fire.

Do not attempt to repair, disassemble, or modify the appliance yourself.
- ▶ Do not use any fuse (such as cooper, steel wire, etc.)other than the standard fuse.
- ▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

FOR USING | ⚠ CAUTION

Do not place objects or devices under the indoor unit.
- ▶ Water dripping from the indoor unit may result in fire or property damage.

Check that the installation frame of the outdoor unit is not broken at least once a year.
- ▶ Failing to do so may result in injury, death or property damage.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.
- ▶ This may result in electric shock, fire, problems with the product, or injury.

Do not operate the appliance with wet hands.
- ▶ This may result in electric shock.

Do not spray volatile material such as insecticide onto the surface of the appliance.
- ▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

Do not drink the water from the air conditioner.
- ▶ The water may be harmful to humans.

Do not apply a strong impact to the remote controller and do not disassemble the remote controller.

Do not touch the pipes connected with the product.
- ▶ This may result in burns or injury.

FOR USING | ⚠ CAUTION

Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.

- This may result in property damage.

Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.

- This may result in harm to humans, animals or plants.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

FOR CLEANING | ⚠ WARNING

Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.

- This may result in discoloration, deformation, damage, electric shock or fire.

Before cleaning or performing maintenance, unplug the air conditioner from the wall socket and wait until the fan stops.

- Failing to do so may result in electric shock or fire.

FOR CLEANING | ⚠ CAUTION

Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.

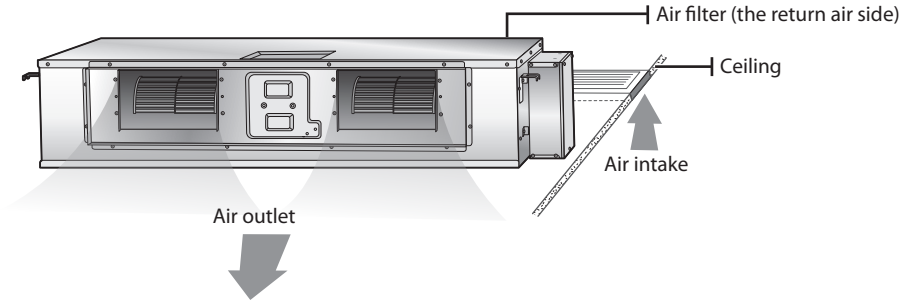
- To avoid cutting your fingers, wear thick cotton gloves when cleaning it.

Do not clean the inside of the air conditioner by yourself.

- For cleaning inside the appliance, contact your nearest service center.
- When cleaning the internal filter, refer to the descriptions in the 'Cleaning and maintaining the air conditioner' section.
- Failure to do may result in damage, electric shock or fire.

Viewing your air conditioner

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.
Please read the user manual to get started and to make the best use of the air conditioner.



Your air conditioner may slightly look different from illustration shown above depending on your model, Air Filter application is as below table.

Using your air conditioner

TIPS ON USING AIR CONDITIONER

Here are some tips that you would follow when using your air conditioner.

TOPIC	RECOMMENDATION
Cooling	• If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness. • Avoid drastically turning down the temperature. Energy is wasted and the room does not cool faster.
Power failure	• If a power failure occurs during the operation of the air conditioner, the operating immediately stops and unit will be off. When power returns, the air conditioner will run automatically.
Protection mechanism	• If the air conditioner has just been turned on after operation stops or being plugged in, cool/warm air does not come out for 3 minutes to protect the compressor of the outdoor unit.

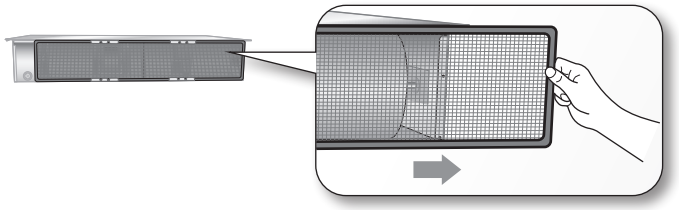
Cleaning and maintaining the air conditioner

For the best performance from your air conditioner, clean it periodically. When cleaning, make sure to unplug from the unit for user's safety.

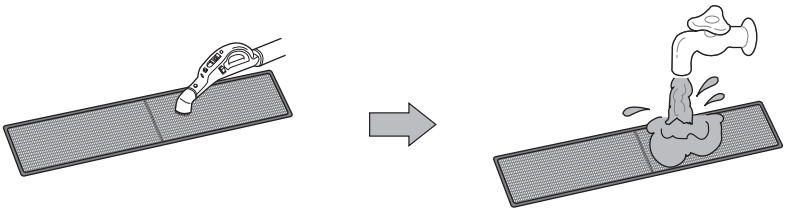
CLEANING THE FILTER

When cleaning the filter, make sure to unplug the power from the unit. Washable foam based Air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

1. Slide out the Air filter on the rear side panel to the right side.

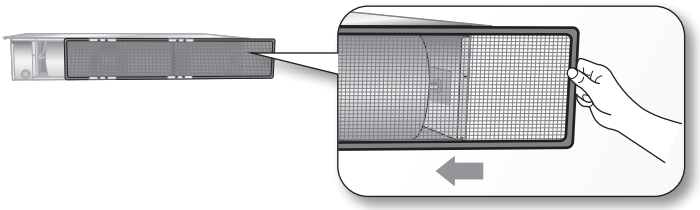


2. Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, then rinse it with running water and dry it in a ventilated area.



- For best conditions, repeat every two weeks.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a ventilated area.

3. Insert the Air filter back in its original position.



❊ The designs and shape are subject to change according to the model.

- The illustration shown above may differ from your depending on your model.
- After cleaning the filter, press the **Filter Reset** button on the remote control for 2 seconds to reset the filler schedule. Filter sign indicator will be on for cleaning time.

MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Monthly	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	●		
	Clean the condensate drain pan (2)			●
	Thoroughly clean the heat exchanger (2)			●
	Clean the condensate drain pipe (2)		●	
	Replace the remote control batteries (1)			●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)		●	
	Clean the heat exchanger on the inside of the unit (2)			●
	Clean the electric components with jets of air (2)			●
	Verify that all the electric components are firmly tightened (2)			●
	Clean the fan (2)			●
	Verify that all the fan assembly is firmly tightened (2)			●
	Clean the condensate drain pan (2)			●

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

Cleaning and maintaining the air conditioner

MAINTAINING YOUR AIR CONDITIONER

Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Anti-protection of internal battery	The compressor will be off to protect internal battery when the air conditioner operates in Cool mode.
Protect compressor	The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started.

Appendix

TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	• Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.
The air conditioner does not work at all.	• Check that the power plug is properly connected. Insert the power plug into the wall socket correctly. • Check if the circuit breaker is switched off. • Check if there is a power failure. • Check your fuse. Make sure it is not blown out.
The temperature does not change.	• Check if you selected Fan mode. Press the **Mode** button on the remote control to select another mode.
The cool air does not come out of the air conditioner.	• Check if the set temperature is higher (lower) than the current temperature. Press the **Temperature** button on the remote control to change the set temperature. Press the **Temperature** button to decrease or increase the temperature. • Check if the air filter is blocked by dirt. • Check if the air conditioner has just been turned on. If so, wait 3 minutes. Cool air does not come out to protect the compressor of the outdoor unit.

Appendix

PROBLEM	SOLUTION
The cool air does not come out of the air conditioner.	• Check if the air conditioner is installed in a place with a direct exposure to sunlight. Hang curtains on windows to boost cooling efficiency. • Check if the cover or any obstacle is not near the outdoor unit. • Check if the refrigerant pipe is too long. • Check if the air conditioner is only available in Cool mode. • Check if the remote control is only available for cooling model.
The fan speed does not change.	• Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.
Timer function does not set.	• Check if you press the **Power** button on the remote control after you have set the time.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.
The air conditioner makes a bubbling sound.	• A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode. • When you press the **Power** button on the remote control, noise may be heard from the drain pump inside the air conditioner.
Water is dripping from the air flow blades.	• Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.
Remote control is not working.	• Check if your batteries are depleted. • Make sure batteries are correctly installed. • Make sure nothing is blocking your remote control sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
The air conditioner does not turn on or off with the wired remote control.	• Check if you set the wired remote control for group control.
The wired remote control does not operate.	• Check if TEST indicator is displayed on the wired remote control. If so, turn off the unit and switch off the circuit breaker. Call your nearest contact center.
The indicators of the digital display flashes.	• Press the **Power** button on the remote control to turn the unit off and switch the circuit breaker off. Then, switch it on again.

OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	21˚C to 32˚C	21˚C to 54˚C	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
DRYING	21˚C to 32˚C	21˚C to 54˚C	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.

If the cooling operation is used at over 32˚C (indoor temperature), it does not cool at its full capacity.

Safety precautions

(Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.)

WARNING

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- The air conditioner is compliant with the requirements of the Low Voltage Directive (72/23/EEC), the EMC Directive (89/336/EEC) and the Directive on pressurized equipment (97/23/EEC).
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

Installing the unit

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.

- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

◆ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.
For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Power supply line, fuse or circuit breaker

◆ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
◆ Always verify that a suitable grounding connection is available.
◆ Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
◆ Always verify that the cut-off and protection switches are suitably dimensioned.
◆ Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
◆ Always verify that electric connections (cable entry, section of leads, protections…) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.

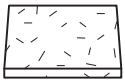
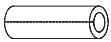
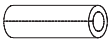
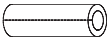
CAUTION

- ***Make sure that you earth the cables.***
  - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- ***Install the circuit breaker.***
  - If the circuit breaker is not installed, electric shock or fire may occur.
- ***Make sure that the condensed water dripping from the drain hose runs out properly and safely.***
- ***Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.***
- ***Install the indoor unit away from lighting apparatus using the ballast.***
  - If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.
- ***Do not install the air conditioner in following places.***
  - Place where there is mineral oil or arsenic acid.
  Resin parts flame and the accessories may drop or water may leak.
  The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
  - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet.
  The copper pipe or connection pipe may corrode and refrigerant may leak.
  - The place where there is a machine that generates electromagnetic waves.
  The air conditioner may not operate normally due to control system.
  - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust.
  The place where thinner or gasoline is handled.
  Gas may leak and it may cause fire.

Selecting the installation location

The following accessories are supplied with the indoor unit.
The type and quantity may differ depending on the specifications.

Accessories

User & Installation manual	Flexible hose	Insulation drain 	Thermal insulation sponge A 	
Thermal insulation sponge B 	Thermal insulation sponge C 	Clamp hose	Rubber	Cable-tie

Wired remote control accessories

Wired remote control(1)	Cable-tie(2)	Cable clamp(4)	M4x16 tapped screw(5)	
Indoor unit power drawing cable (1)	Communication cable of the wired remote control (1)	Wire joint(4)	User's manual (1)	Installation manual (1)

Indoor Unit

- There must be no obstacles near the air inlet and outlet.
- Install the indoor unit on a ceiling that can support its weight.
- Maintain sufficient clearance around the indoor unit.
- Make sure that the water dripping from the drain hose runs away correctly and safely.
- The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- After connecting a chamber, insulate the connection part between the indoor unit and the chamber with t10 or thicker insulation. Otherwise, there can be air leak or dew from the connection part.
- Rigid wall without vibration.
- Where it is not exposed to direct sunshine.
- Where the air filter can be removed and cleaned easily.

Space requirements for installation & service

◆ Construction Standard for Inspection Hole.

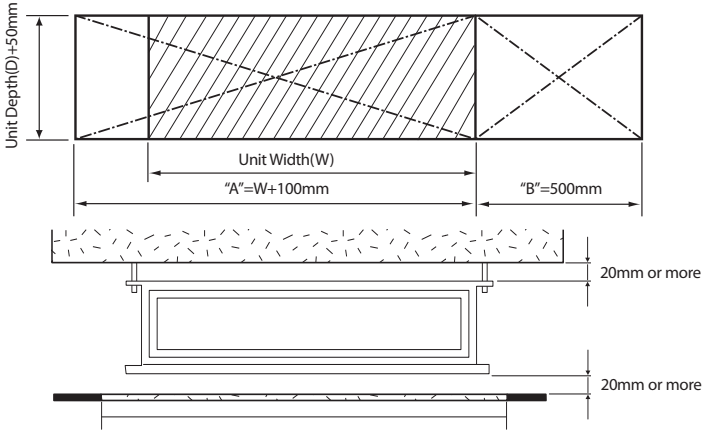
1) In case, the ceiling is textile, Inspection hole dose not need.

2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.

a. Height is more than 1m : Only "B" [Inspection for PBA] is applied.

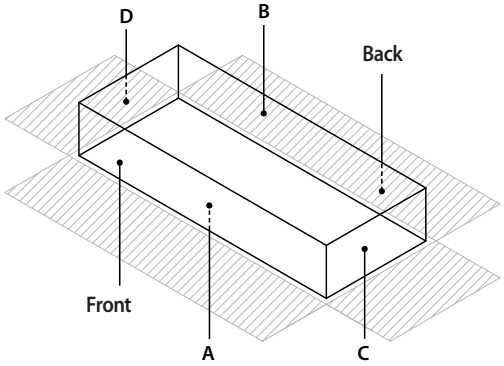
b. Height is less than 1m : Both "A" & "B" are applied.

c. "A" & "B" are inspection holes.



- You must have 20mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user.When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install the unit at an height of between 2.2~2.5m from the ground, if the unit has a duct with a well defined lenght (300mm or more), to avoid fan motor blower contact.
- If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply extra 10mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.

Insulation Guide



Thickness: more than 10mm

Indoor Unit		A	B	C	D	Front/Back
MA duct	900x480x260	900x480	900x480	480x260	480x260	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.
	1150x480x320	1150x480	1150x480	480x320	480x320	
	1200x650x360	1200x650	1200x650	650x360	650x360	

◆ **Insulate the end of the pipe and some curved area by using separate insulator.**

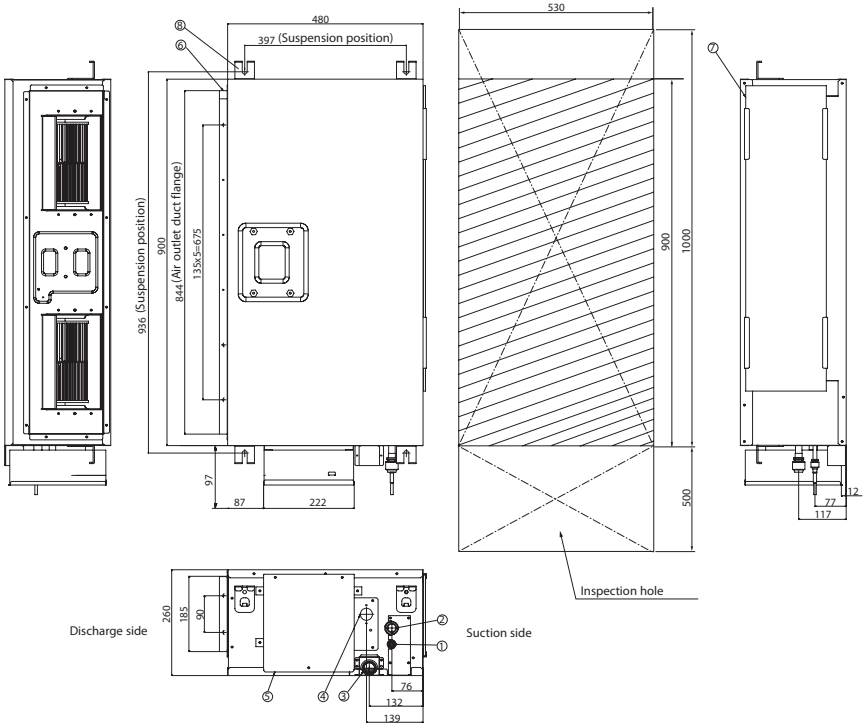
◆ **Insulate the discharge and suction part at the same time when you insulate connection duct.**

Selecting the installation location

Drawing of the indoor unit

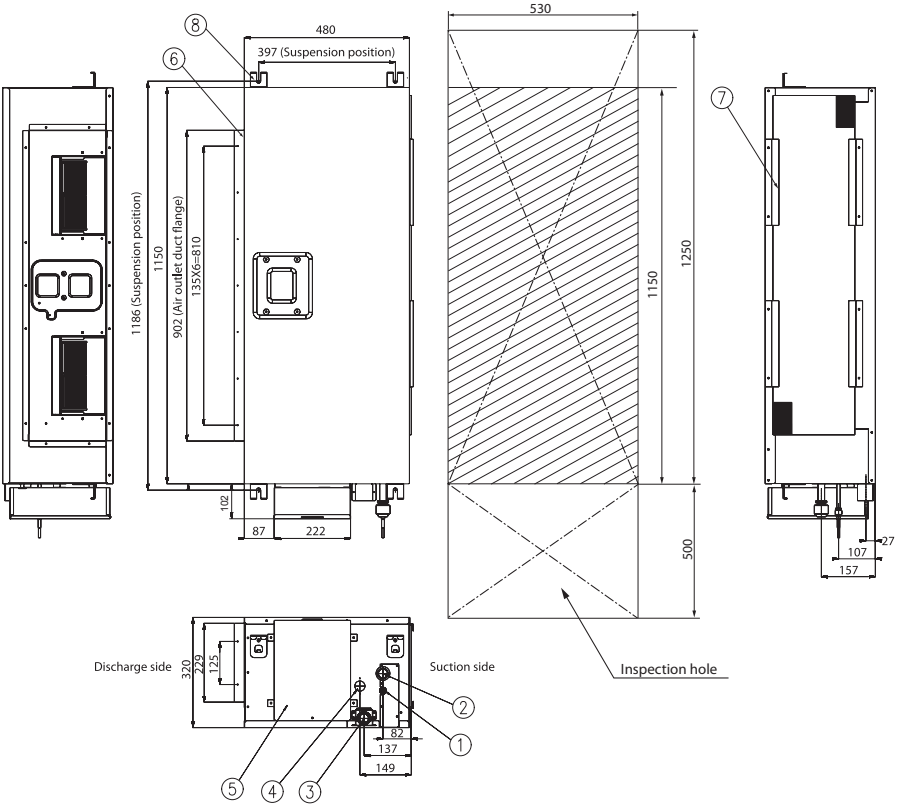
NS012SCRE✳
NS018SCRE✳
NS024SCRE✳

Unit:mm



No.	Name	Description
1	Liquid pipe connection	ø6.35(1/4")
2	Gas pipe connection	ø9.52(3/8")(✳✳**012**✳✳); ø12.70(1/2")(✳✳**018**✳✳); ø15.88(5/8")(✳✳**024**✳✳);
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Drain pipe connection	Using drain pump (Optional)
5	Power supply connection	
6	Air discharge flange	
7	Air filter	
8	Hook	M8~M10

NS036SCRE✳ **Unit:mm**



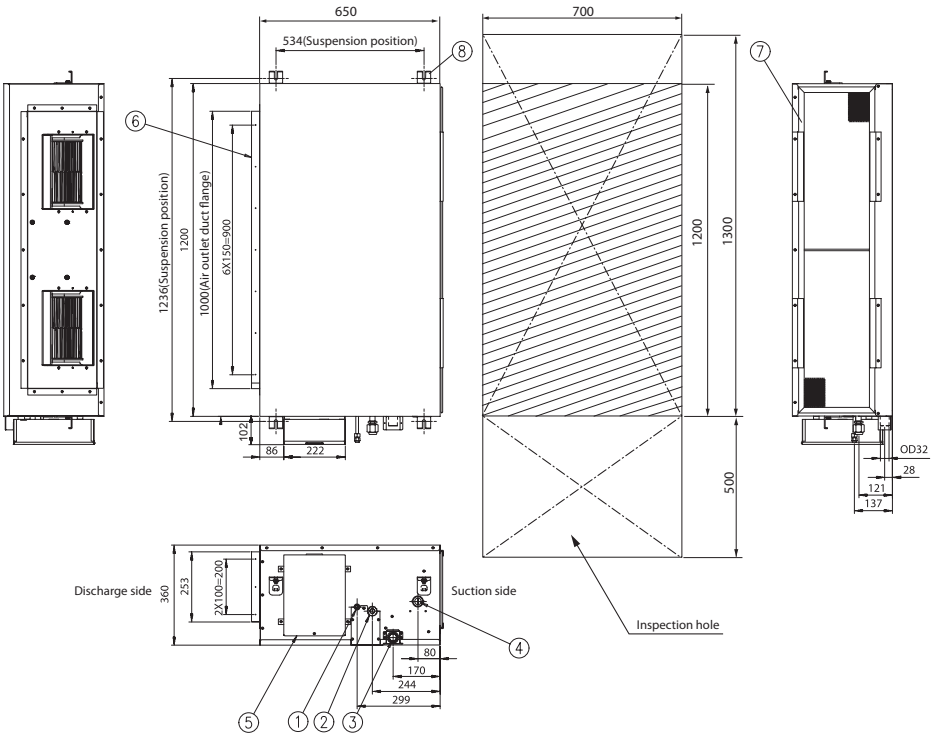
No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø15.88(5/8")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Drain pipe connection	Using drain pump (Optional)
5	Power supply connection	
6	Air discharge flange	
7	Air filter	
8	Hook	M8~M10

Selecting the installation location

Drawing of the indoor unit

NS048SCRE✳
NS060SCRE✳

Unit:mm

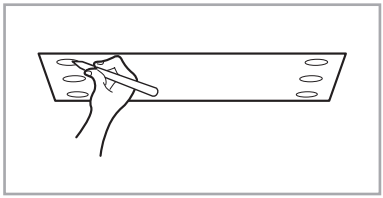


No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø19.05(3/4")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Drain pipe connection	Using drain pump (Optional)
5	Power supply connection	
6	Air discharge flange	
7	Air filter	
8	Hook	M8~M10

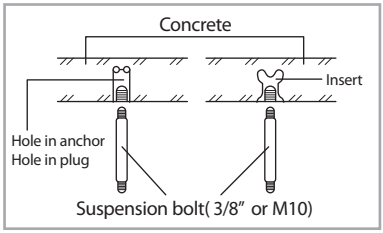
Indoor unit installation

1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.

Note Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.



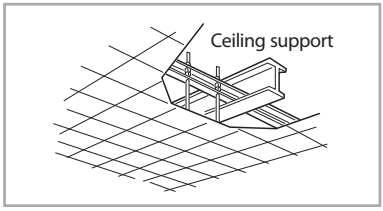
2 Insert bolt anchors, use existing ceiling supports or construct a suitable support as shown in figure.



3 Install the suspension bolts depending on the ceiling type.

CAUTION

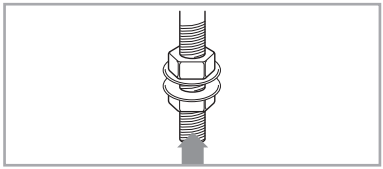
- ◆ Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- ◆ If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.
- ◆ If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.



4 Screw eight nuts to the suspension bolts making space for hanging the indoor unit.

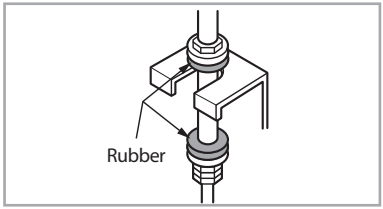
CAUTION

- ◆ You must install the suspension bolts more than four when installing the indoor unit.



5 Hang the indoor unit to the suspension bolts between two nuts.

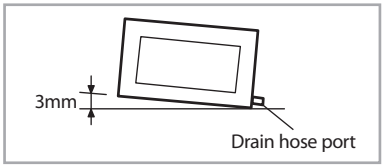
Note Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.



6 Screw the nuts to suspend the unit.

7 Adjust level of the unit by using measurement plate for all 4 sides.

Note For proper drainage of condensate, give a 'A' slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.



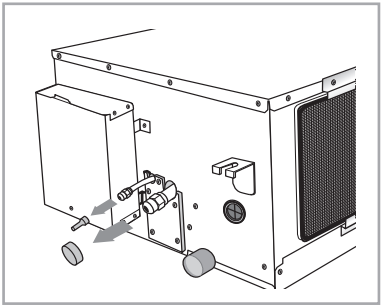
Purging the unit

On delivery, the indoor unit is loaded with inert gas. All this gas must therefore be purged before connecting the assembly piping. To purge the inert gas, proceed as follows.

Unscrew the pinch pipe at the end of each refrigerant pipe.

Result: All inert gas escapes from the indoor unit.

Note To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.

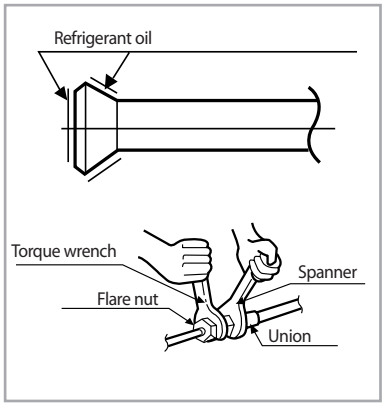


✳ The designs and shape are subject to change according to the model.

Connecting the refrigerant pipe

There are two refrigerant pipes of differing diameters:

- ***A smaller one for the liquid refrigerant***
- ***A larger one for the gas refrigerant***
- ***The inside of copper pipe must be clean & has no dust.***



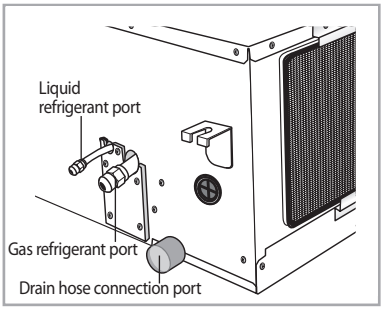
The connection procedure for the refrigerant pipes varies according to the exit position of the pipes from the indoor unit, as seen when facing the indoor in the "A" side.

- ***Liquid refrigerant port***
- ***Gas refrigerant port***
- ***Drain hose port***

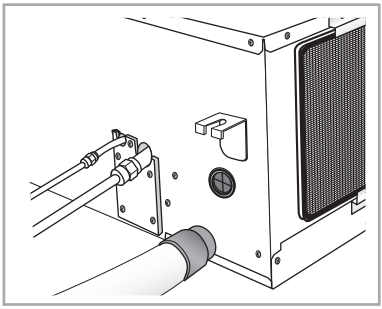
1 Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.

Outer Diameter	Torque (kgf•cm)
6.35 mm (1/4")	145~175
9.52 mm (3/8")	333~407
12.70 mm (1/2")	505~615
15.88 mm (5/8")	630~769
19.05 mm (3/4")	990~1210

Note Must apply refrigerant oil on the flaring area to prevent a leak.



2 Be sure that there must be no crack or kink on the bended area.

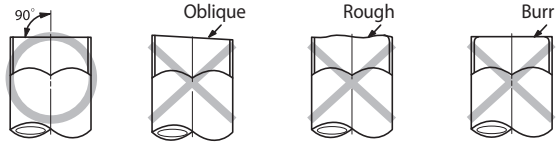


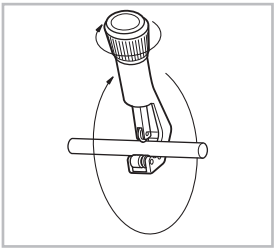
❊ The designs and shape are subject to change according to the model.

Cutting/flaring the pipes

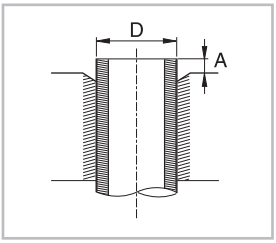
1 Make sure that you prepared the required tools.
(pipe cutter, reamer, flaring tool and pipe holder)

2 If you want to shorten the pipe, cut it using a pipe cutter ensuring that the cut edge remains at 90° with the side of the pipe. There are some examples of correctly and incorrectly cut edges below.

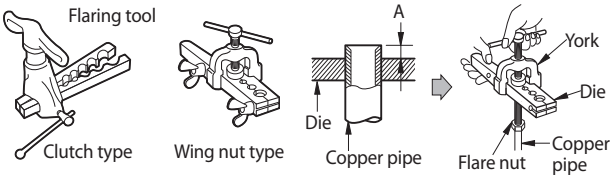




3 To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.



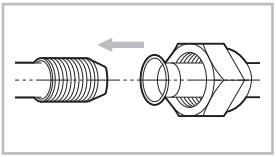
4 Carry out flaring work using flaring tool as shown below.



Outer diameter (mm)	A(mm)		
	Flare tool for R22 clutch type	Conventional flare tool	
		Clutch type	Wing nut type
6.35	0~0.5	1.0~1.5	1.5~2.0
9.52	0~0.5	1.0~1.5	1.5~2.0
12.70	0~0.5	1.0~1.5	1.5~2.0
15.88/19.05	0~0.5	1.0~1.5	1.5~2.0

5 Check if you flared the pipe correctly. There are some examples of incorrectly flared pipes below.

6 Align the pipes and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.



Outer diameter (mm)	Connection Torque (kgf•cm)
6.35	145~175
9.52	333~407
12.70	505~615
15.88	630~769
19.05	990~1210

CAUTION

In case of needing brazing, you must work with Nitrogen gas blowing.

Performing leak test & insulation

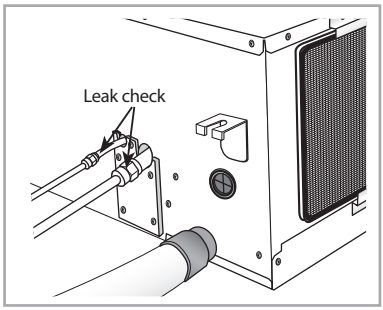
Leak test

LEAK TEST WITH NITROGEN (before opening valves)
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R22, it's responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (gauge).

LEAK TEST WITH R22 (after opening valves)
Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R22.

CAUTION

Discharge all the nitrogen to create a vacuum and charge the system.



※ The designs and shape are subject to change according to the model.

Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1 To avoid condensation problems, place **T13.0 or thicker Acrylonitrile Butadien Rubber** separately around each refrigerant pipe.

Note Always make the seam of pipes face upwards.

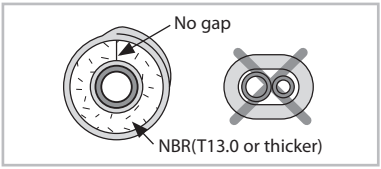
2 Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.

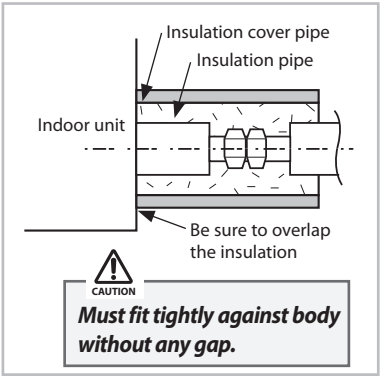
3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

4 The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.

CAUTION

All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.





CAUTION

Must fit tightly against body without any gap.

Performing leak test & insulation

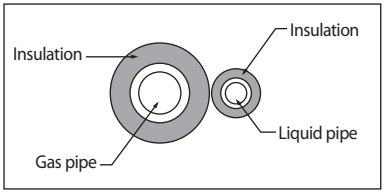
5 Select the insulator of the refrigerant pipe.

- Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- Indoor temperature of 30°C and humidity of 85% is the standard condition. If installing in a high humidity condition, use one grade thicker insulator by referring to the table below.
  If installing in an unfavorable conditions, use thicker one.
- Insulator's heat-resistance temperature should be more than 120°C.

Pipe	Pipe size	Insulation Type (Heating/Cooling)		Remarks
		Standard [30°C, 85%]	High humidity [30°C, over 85%]	
		EPDM, NBR		
Liquid pipe	Ø6.35 ~ Ø9.52	9t	←	Internal temperature is higher than 120°C
	Ø12.7 ~ Ø50.80	13t	←	
Gas pipe	Ø6.35	13t	19t	
	Ø9.52	19t	25t	
	Ø12.70			
	Ø15.88			
	Ø19.05			
	Ø22.23			
	Ø25.40			
	Ø28.58		32t	
	Ø31.75			
	Ø38.10			
	Ø44.45			
	Ø50.80	25t	38t	

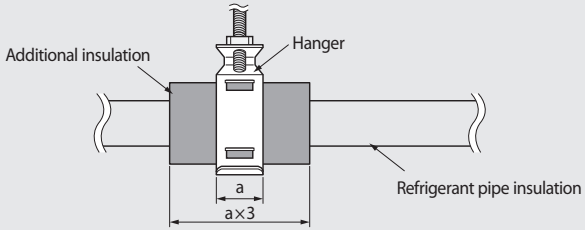
Refrigerant pipe

- You can contact the gas side and liquid side pipes but the pipes should not be pressed.
- When contacting the gas side and gas side pipe, use 1 grade thicker insulator.



⚠ *CAUTION*

- ***Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.***
- ***Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.***
- ***Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.***
- ***Add the additional insulation if the insulation plate gets thinner.***



Drain pipe and drain hose installation

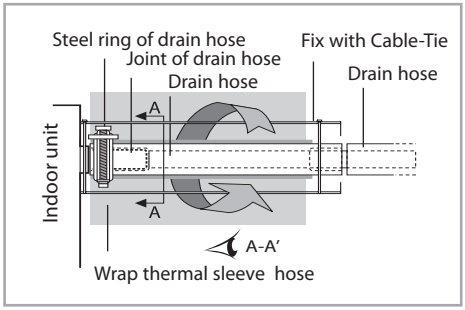
Care must be taken when installing the drain hose for the indoor unit to ensure that any condensate water is correctly drained outside.

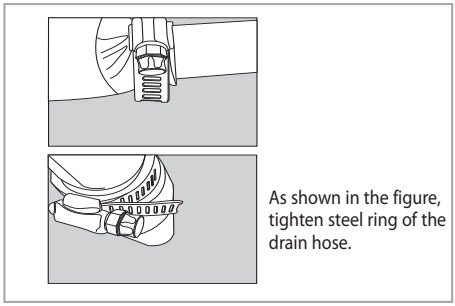
1 Installing the drain hose should be the shorter, the better.

- ◆ In order to discharge condensation water, the drain hose should keep tilted.
- ◆ Fix the drain hose with Cable-Tie, so that it will not separate from the machine.
- ◆ While using draining pump, connect the end with draining pump.

2 Insulate and fix the drain hose according to the figure.

- ◆ Insert the drain hose to bottom of the outfall of water basin.
- ◆ Lock steel ring of the drain hose according to the figure.
- ◆ Wind and wrap steel ring and drain hose fully with thermal insulation sponge; fix both ends of external layer with ribbon for thermal insulation.
- ◆ After being installed, drain hose must be insulated fully by heat insulating material. (To be provided at site.)





Drain pipe and drain hose installation

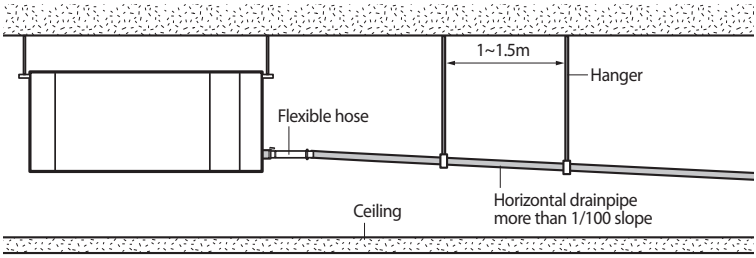
Drainpipe Connection

Without the drain pump

1 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.

2 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.

3 Do not install the drainpipe to upward position. It may cause water flow back to the unit.



With the drain pump

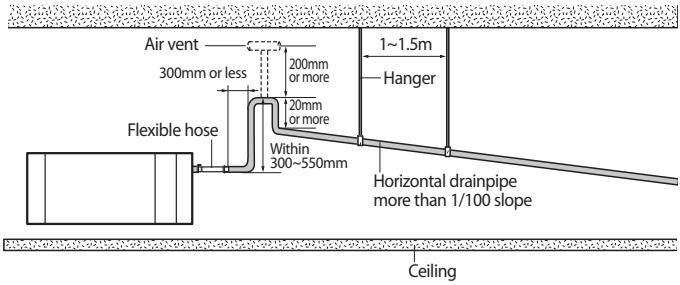
1 The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.

2 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.

3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.

Note You may not need to install it if there were proper slope in the horizontal drainpipe.

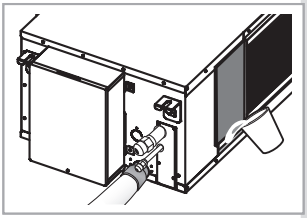
4 The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.



Testing the drainage

Prepare a little water about 5 liter.

1 Pour water into the base pan in the indoor unit as shown in figure.



2 Confirm that the water flows out through the drain hose.

Wiring work

Power and communication cable connection

1 Before wiring work, you must turn off all power source.

2 Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.
ELCB: Earth Leakage Circuit Breaker
MCCB:Molded Case Circuit Breaker
ELB:Earth Leakage Breaker

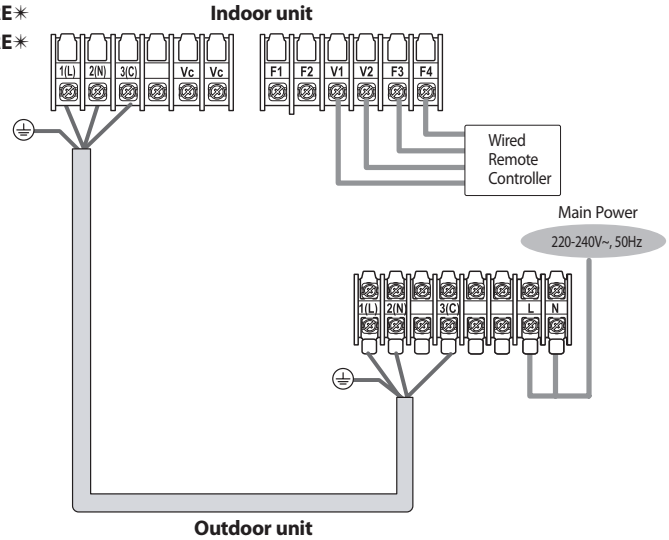
3 The power cable should be used only copper wires.

4 Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(3(C)) each.

5 Connect V1, V2(for DC12V) and F3, F4(for communication) when installing the wired remote control.

⚠WARNING
Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

NS012SCRE✳/RC012FSTRE✳
NS018SCRE✳/RC018FSTRE✳



Between Indoor and Outdoor Connection Cord Specifications

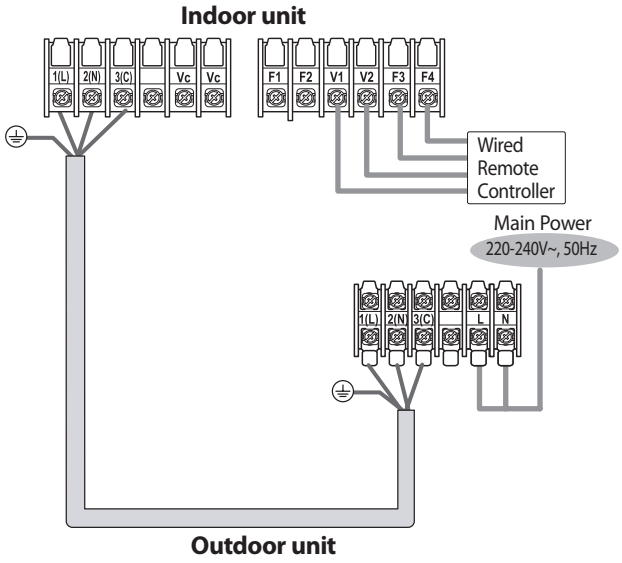
Power Supply (Single Phase)			Earth Cable	Communication Cable
Power Supply	Max/Min(V)	Connection Wire		
220-240V~/50Hz	±10%	1.25mm^2,2 wires	Ø 1.6mm,1 wire	0.75~1.25mm^2 ,1 wire

✳***The terminal block designs and shape are subject to change according to the model.***

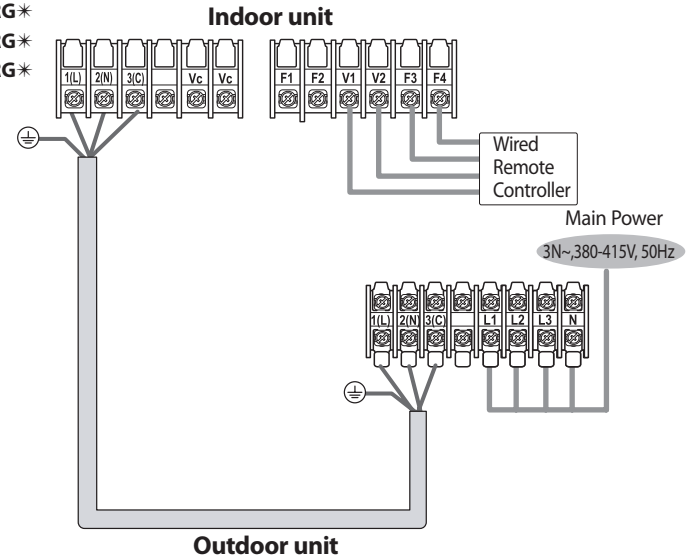
✳ ***For connection cord, use the grade H07RN-F or H05RN-F materials.***

✳ ***Screws on terminal block must not be unscrewed with the torque less than 12 kgf•cm.***

NS024SCRE✳/RC024FSTRE✳
NS036SCRE✳/RC036FSTRE✳



NS036SCRE✳/RC036FSTRG✳
NS048SCRE✳/RC048FSTRG✳
NS060SCRE✳/RC060FSTRG✳



■ Between Indoor and Outdoor Connection Cord Specifications

Power Supply (Single Phase)			Earth Cable	Communication Cable
Power Supply	Max/Min(V)	Connection Wire		
220-240V~/50Hz	±10%	1.25mm^2,2 wires	Ø 1.6mm,1 wire	0.75~1.25mm^2 ,1 wire

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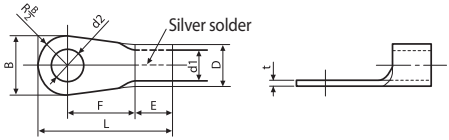
Wiring work

Selecting compressed ring terminal



Norminal dimensions for cable (mm^2)	Norminal dimensions for screw (mm)	B		D		d1		E	F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
1.5	4	6.6	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16	4.3	+0.2 0	0.7
	4	8											
2.5	4	6.6	±0.2	4.2	+0.3 -0.2	2.3	±0.2	6	6	17.5	4.3	+0.2 0	0.8
	4	8.5											
4	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9

CAUTION

- ***Select the power cable in accordance with relevant local and national regulations.***
- ***Wire size must comply with local and national code.***
- ***For the power cable, use the grade of H07RN-F or H05RN-F materials.***
- ***You should connect the power cable into the power cable terminal and fasten it with a clamp.***
- ***The unbalanced power must be maintained within 10% of supply rating among whole indoor units.***
- ***If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.***
- ***To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.***
- ***Connect the power cable to the auxiliary circuit breaker.***
  An all pole disconnection from the power supply must be incorporated in the fixed wiring(≥3mm).
- ***You must keep the cable in a protection tube.***
- ***Keep distances of 50mm or more between power cable and communication cable.***
- ***Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.***
- ***The circuit breaker(ELCB or MCCB+ELB) should be considered more capacity if many indoor units are connected from one breaker.***
- ***Use round pressure terminal for connections to the power terminal block.***
- ***For wiring, use the designated power cable and connect it firmly, then secure to prevent outside pressure being exerted on the terminal board.***
- ***Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.***
- ***Over-tightening the terminal screws may break them.***
- ***See the table below for tightening torque for the terminal screws.***

Tightening torque(kgf·cm)	
M3	5.9
M 4	12.0~14.7

Adjusting air flow

E. S. P(External Static Pressure) setting for phase control motor

With its phase control motor, you can adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, adjust the fan speed by referring the following table. Refer to the page 34 to set the option code.

Static Pressure(mmAq)		0	2	4	6	8	10	12	14	15
Model	Step	Option code for indoor unit								
NS012SCRE✳	HI	010044 -1600F3	010044 -16023A	010044 -160380	-	-	-	-	-	-
	MID									
	LOW									
NS018SCRE✳	HI	010001 -1A027F	010001 -1A03A2	010001 -1A03D4	010003 -1A0156	-	-	-	-	-
	MID									
	LOW									
NS024SCRE✳	HI	010003 -1C013D	010003 -1C014F	010004 -1C0215	010004 -1C03F5	010004 -1C03FD	-	-	-	-
	MID									
	LOW									
NS036SCRE✳	HI	010003 -1F018E	010003 -1F01AF	010004 -1F00D0	010004 -1F0232	010004 -1F02F5	010004 -1F02F5	-	-	-
	MID									
	LOW									
NS048SCRE✳	HI	010814- 1300B4	010814- 1300D6	010814- 1300F8	010814- 13021A	010814- 13023C	010814- 13025E	010814- 1303A0	010814- 1303F4	010814- 1303F6
	MID									
	LOW									
NS060SCRE✳	HI	010814- 1400E1	010814- 140204	010814- 140225	010814- 140257	010814- 140299	010814- 140279	010814- 140259	010814- 140259	010814- 140259
	MID									
	LOW									

Note ◆ represents E. S. P(External Static Pressure) range of factory setting.
You don't have to adjust the fan speed separately if the external static pressure of the installation place is in . When it is out of , input the appropriate option code.

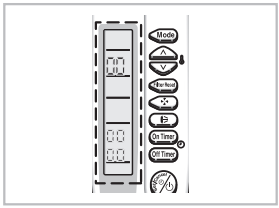
◆ If you input the inappropriate option code, error may occur or the air conditioner is out of order. The option code must be inputted correctly by the installation specialist or service agent.

ENGLISH

Setting up the mode option

Setting option setup method

For example) Option code : 0851 15- 1d2340



1 Prepare of the option setup mode.

a. Take out the batteries of remote control.

b. Press the button simultaneously and insert the battery again.

c. Make sure the remote control display shows as 00.

00
00

2 Enter the option setup mode and select your option according to the following procedure.

❶ The default value is 00. Otherwise, push the Mode button to 0.

00
00

◆ Every time you press the button, the display panel reads 1 or 0 repeatedly.

❷ Press the button to set the display panel to 8.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ··· 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❸ Press the button to set the display panel to 5.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ··· 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❹ Press the button to set the display panel to 1.

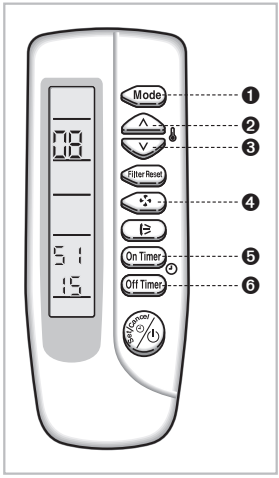
◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ··· 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❺ Press the On Timer button to set the display panel to 1.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ··· 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❻ Press the Off Timer button to set the display panel to 5.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ··· 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.



✳ Setting is not required if you want to input 0.0 is displayed by default.

❼ Press the Mode button, then the default value is 10.

❽ Press the ∧ button to set the display panel to d.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ... 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❾ Press the ∨ button to set the display panel to 2.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ... 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

❿ Press the button to set the display panel to 3.

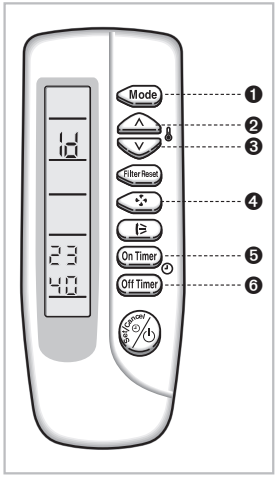
◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ... 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

⓫ Press the On Timer button to set the display panel to 4.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ... 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.

⓬ Press the Off Timer button to set the display panel to 0.

◆ Every time you press the button, the display panel reads 0 ➡ 1 ➡ 2 ➡ 3 ➡ ... 9 ➡ A ➡ b ➡ c ➡ d ➡ repeatedly.



✳ Setting is not required if you want to input 0.0 is displayed by default.

3 Check you made right selections upon completion of the selection.

a. Press the Mode button once to check the former part of option code you inputted.

◆ The display part shows 08.

b. Press the Mode button once to check the former part of option code you inputted.

◆ The display part shows 10.

Setting up the mode option

4 Press the (SWING/%/♪) button.

◆ When you press the (SWING/%/♪) button towards the indoor unit, the sound 'Ding' or 'Diriring' is heard and the power indicator of the display flashes at the same time. Then the option code setting is completed.
(If the sound is not heard, press the (SWING/%/♪) button again.)

5 Check the air conditioner operates normally.

a. Remove the battery from the remote control.

b. Insert the battery into the remote control again.

c. Press the (SWING/%/♪) towards the indoor unit.

Note

◆ If all indicators of the indoor unit are flashing, plug out the power plug and plug it in again.
Then press the (SWING/%/♪) button.

◆ If the air conditioner does not operate normally or all lamps indicators flash, check that the correct option code is set up.

Option items

Remote control / Model	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
NS012SCRE✳	0	1	0	0	4	4	1	6	0	2	3	A
NS018SCRE✳	0	1	0	0	0	1	1	A	0	3	D	4
NS024SCRE✳	0	1	0	0	0	4	1	C	0	2	1	5
NS036SCRE✳	0	1	0	0	0	4	1	F	0	2	F	5
NS048SCRE✳	0	1	0	8	1	4	1	3	0	2	3	C
NS060SCRE✳	0	1	0	8	1	4	1	4	0	2	9	9

◆ If you are going to use up to SEG 24, please refer to following instruction.
SEG 17 : 0 1: Using high ceiling kit for 4way.
SEG 18 :

	Not in use	Use
Change temperature display	0(Celsius)	1(Fahrenheit)
Sound Mute	0	2
Mixed operation control	0	4

◆ If you want to use multiple functions, add each of the 'use' value of the function you want to used and input the final addition as option value.(Use Fahrenheit + Sound mute + Mixed operation control : 1 + 2 + 4 = 7)

Ex) 044217-1d00e6-200000-300000

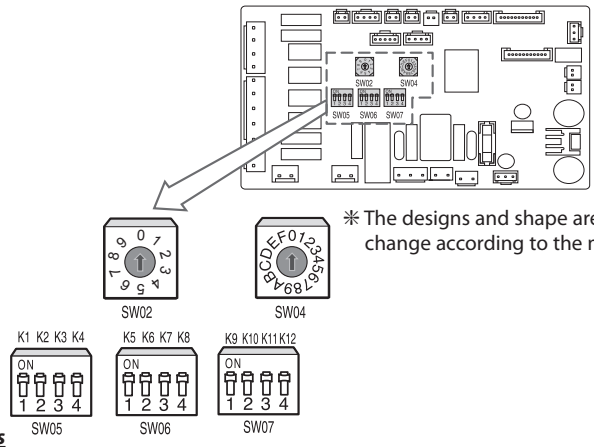
When using Sound mute : 044217-1d00e6-200002-300000

When using high ceiling kit for 4way and mixed operation error preventing function : 044217-1d00e6-200014-300000

Assigning address to indoor unit

1 Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.

2 The address of the indoor unit is assigned by adjusting MAIN(SW02) and RMC(SW04) rotary switches.



✳ The designs and shape are subject to change according to the model.

Setting Main Address

- The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.
- You can set the MAIN address from '0' to '9' by SW02. The MAIN address from '0 to '9' should differ from each other.
- Check the indoor unit address on the plan that you may install and set the address according to the plan.

Note You may not need to set main address if you selected Auto Address Setting from the outdoor unit: see details on the outdoor unit installation manual.

For Example **When MAIN address is set as "2".**

Setting RMC Address

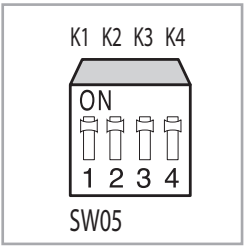
- The SW04 RMC switch is the address setting switch for controlling the indoor unit with the centralized controller.
- You must set the SW04 and K2 switch when using the centralized controller.

For Example **When RMC address is set as "2".**

ENGLISH

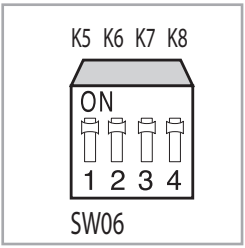
Additional functions

No.		Function	ON	OFF	Model
SW05	K1	External room sensor	Not use	Use	✳12/18/24/36✳
	K2	Centralized controller	Not use	Use	✳12/18/24/36 /48/60✳
	K3	-	-	-	-
	K4	Option drain pump	Not use	Use	✳12/18/24/36 /48/60✳

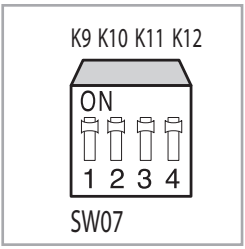


❉ K1 OFF
Heating mode : Setting temperature compensation value = 0℃
Thermo OFF →Fan OFF

No.		Function	ON	OFF	Model
SW06	K5	Heating Current Temperature Compensation	+2℃	+5℃	✳12/18/24/36 /48/60✳
	K6	Filter Time	1000 hours	2000 hours	✳12/18/24/36 /48/60✳
	K7	Hot Water Heater	Not use	Use	✳36/48/60✳
	K8	Heater	Not use	Use	✳36/48/60✳



No.		Function	ON	OFF	Model
SW07	K9	-	-	-	-
	K10	Wired Remocon Group Master	Not use	Use	✳36/48/60✳
	K11	External control	Not Use	Use	✳12/18/24/36 /48/60✳
	K12	Operation output	Thermal ON	Operation ON	✳12/18/24 /36✳



Final check

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the following:

- Strength of the installation site
- Tightness of pipe connection to detect gas leak
- Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- Grounding conductor connection
- Correct operation (follow the steps below)

Providing information for user

After finishing the installation of the air conditioner, you should explain the following to the user. Refer to appropriate pages in the user & installation manual.

1	How to start and stop the air conditioner
2	How to select the modes and functions
3	How to adjust the temperature and fan speed
4	How to adjust the airflow direction
5	How to set the timers
6	How to clean and replace the filters

Note ***When you complete the installation successfully, hand over the user & installation manual to the user for storage in a handy and safe place.***

Troubleshooting

Detection of errors

- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

LED Display on the receiver & display unit

LED Display

Abnormal conditions	Indicators					Operating
	Concealed Type					
	Green	Red				
	Standard Type					
Power reset	◑	×	×	×	×	
Error of temperature sensor in indoor unit (OPEN/SHORT)	×	×	◑	×	×	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit Error of heat exchanger OUT sensor in indoor unit Error of outlet temperature sensor in indoor unit (OPEN/SHORT)	◑	×	◑	×	×	Displayed on appropriate indoor unit which is operating
Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor	◑	×	×	◑	×	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minute error 4. When sending the communication error from outdoor unit the mismatching of the communication numbers and installed numbers after completion of tracking. (communication error for more than 2 minutes)	×	×	◑	◑	×	1. Error of indoor unit: Displayed on the indoor unit regardless of operation 2. Error of outdoor unit: Displayed on the indoor unit which is operating

● On ◑ Flickering × Off

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

LED Display

Abnormal conditions	Indicators					Remarks
	Concealed Type					
	Green	Red				
	Standard Type					
Communication error between indoor units	◑	X	X	X	◑	
1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. 2'nd detection of high temperature cond 4. 2'nd detection of high temperature discharge 5. Error of reverse phase 6. Compressor down due to 6th detection of freezing	X	X	◑	◑	◑	
Detection of the float switch	X	X	◑	◑	◑	
Error of setting option switches for optional accessories	X	X	◑	X	◑	
EEPROM error	◑	X	◑	◑	X	
EEPROM option error	◑	◑	◑	◑	◑	

● On ◑ Flickering ×Off

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

Troubleshooting

Wired remote control

◆ If an error occurs, TEST is displayed on the wired remote control.
If you would like to see an error code, press the Test button.

Display	Explanation	Remark
416	Compressor down due to protection control of the discharge temperature sensor	Error about protection control of the outdoor unit
450	Control due to the condenser temperature sensor when cooling mode	
451	Error of the low pressure switch (Protection control)	
425	Reverse phase error (Protection control)	
551	In removing frost	
221	Error of the outdoor temperature sensor (Open/Short)	Error about the outdoor unit sensor (Open/Short) Detection during the operation of the indoor unit (sensing and sending errors into the communication data)
237	Error of condensor temperature sensor (Open/Short)	
251	Error of discharge temperature sensor (Open/Short)	
201	- System down caused by communication error after completion of tracking - Mismatching of the indoor unit numbers set with those communication after completion of 5 times tracking	Communication and the indoor unit errors
A21	Error of temperature sensor in the indoor unit (Open/Short)	Self-diagnosis of the indoor and outdoor unit
A22	Error of the heat exchanger sensor in the indoor unit (Open/Short)	
419	Error of electronic expansion valve open in the outdoor unit (when it is detected more than once)	
422	Error of electronic expansion valve close in the outdoor unit (when it is detected more than once)	
601	Error of communication between the indoor unit and the wired remote controller	Wired remote controller errors
602	Master wired remote controller ↔ Slave wired remote controller	
606	COM1/COM2 Cross-installed error	
AEA	Error of setting option for wired remote controller COM2	

Memo

QUESTIONS OR COMMENTS?

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IRAN	021-8255	www.samsung.com www.samservice.com
OMAN	800-SAMSUNG(726-7864)	www.samsung.com
KUWAIT	183-2255	www.samsung.com
BAHRAIN	8000-4726	www.samsung.com
EGYPT	08000-726786	www.samsung.com
JORDAN	800-22273	www.samsung.com
MOROCCO	080 100 2255	www.samsung.com
OMAN	800-SAMSUNG (726-7864)	www.samsung.com
SAUDI ARABIA	9200-21230	www.samsung.com
TURKEY	444 77 11	www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	www.samsung.com

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